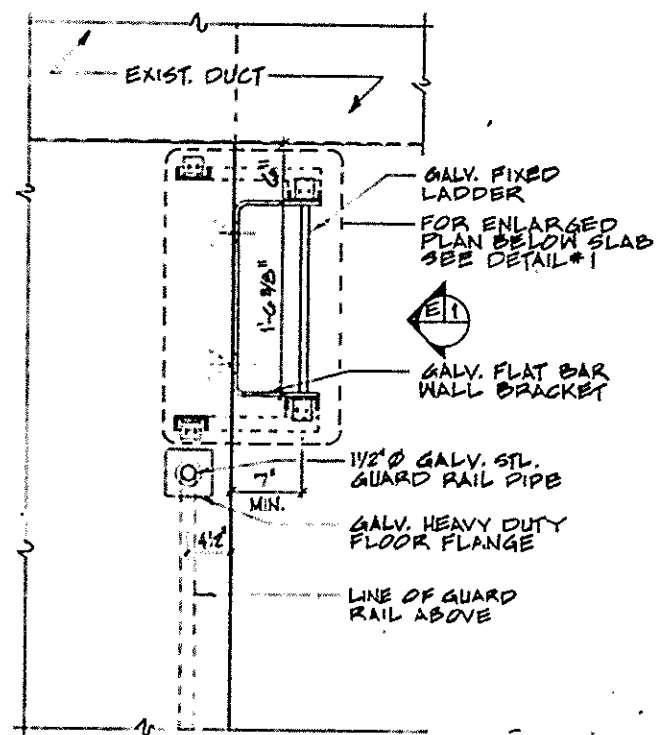


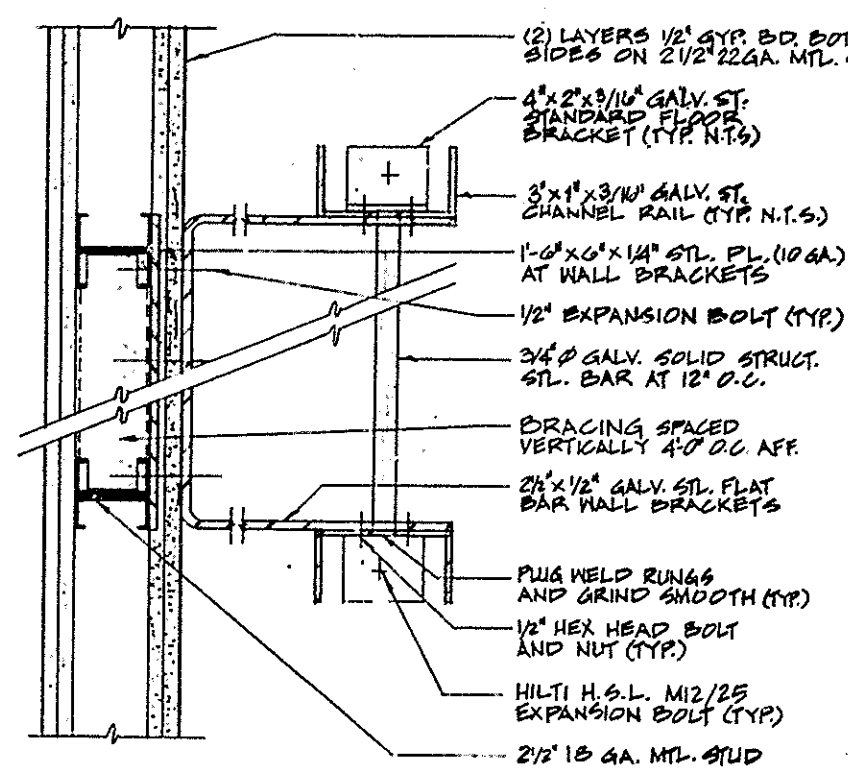
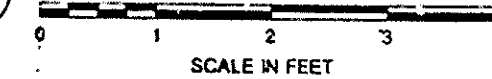


**THE PORT AUTHORITY  
OF NY & NJ**

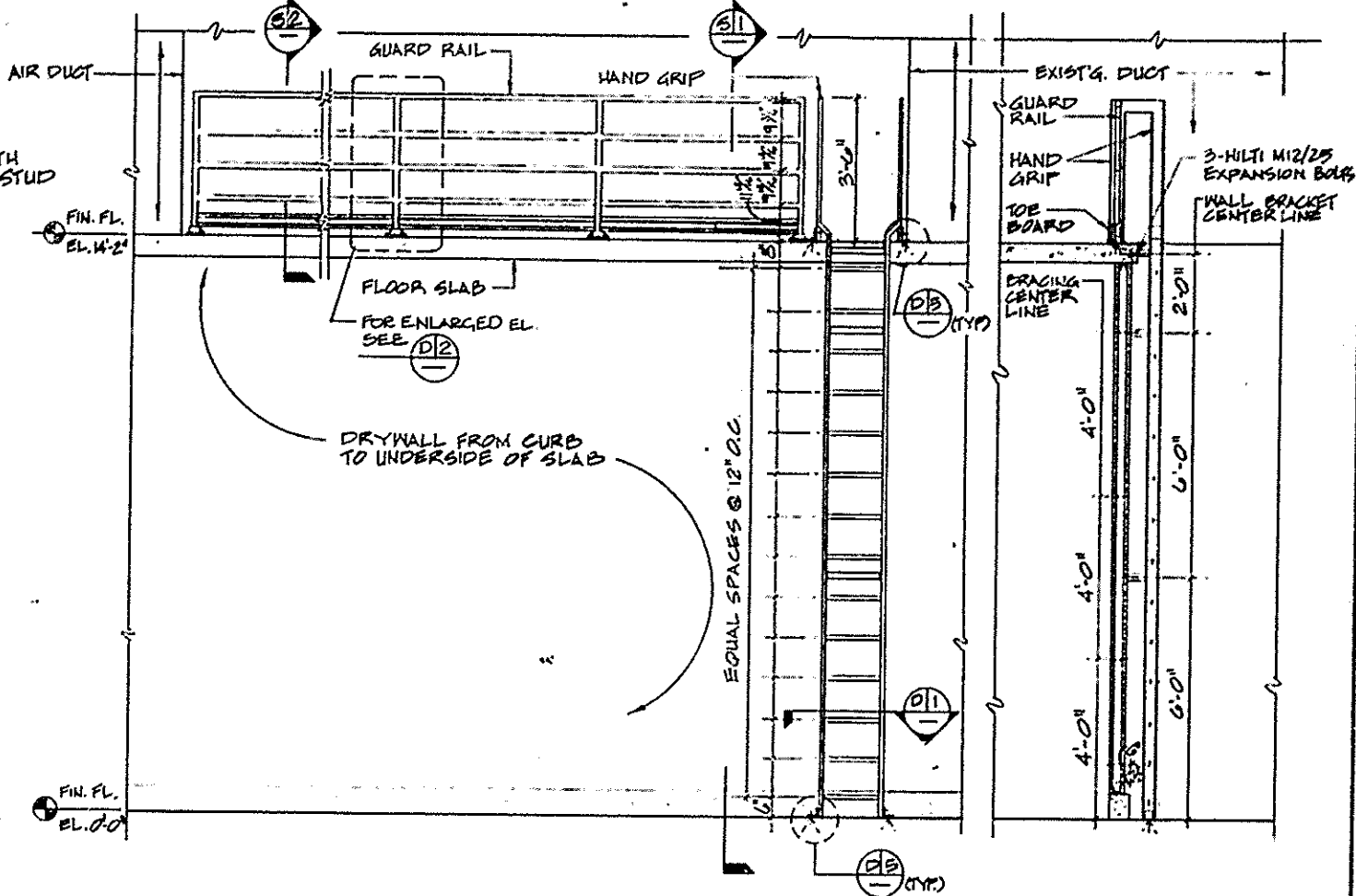
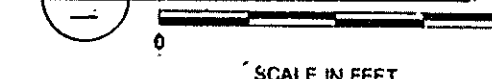
*Peter K. Jurewicz*  
ENGINEERING PROGRAM MANAGER  
WORLD TRADE CENTER  
*P. J. Jurewicz*  
CHIEF ARCHITECT



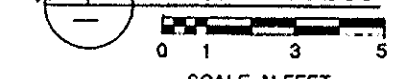
**P1 PLAN OF MECHANICAL ROOM LADDER**



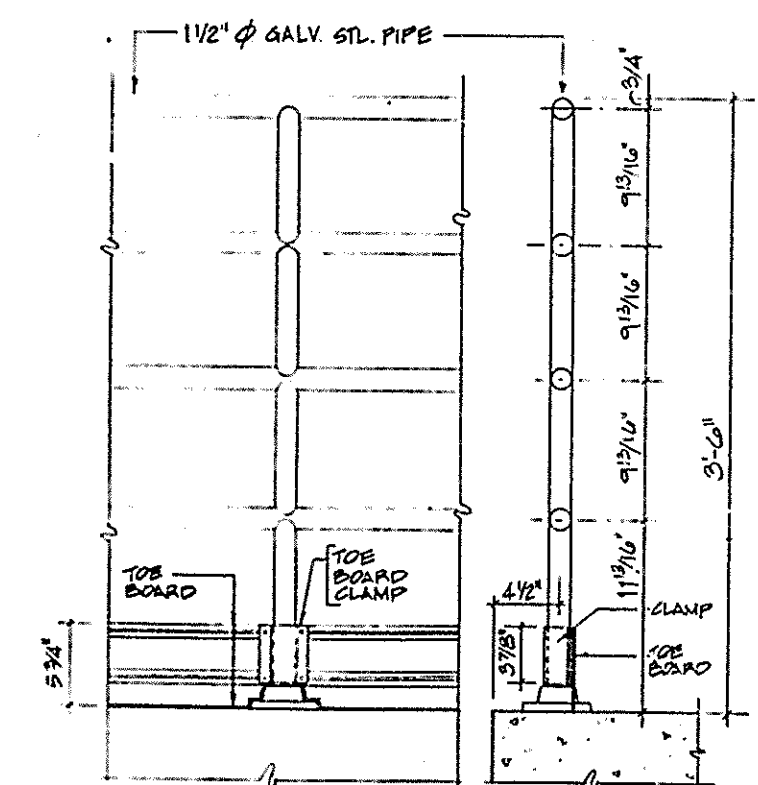
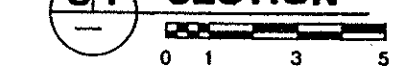
**D1 LADDER DETAIL**



**E1 ELEVATION**



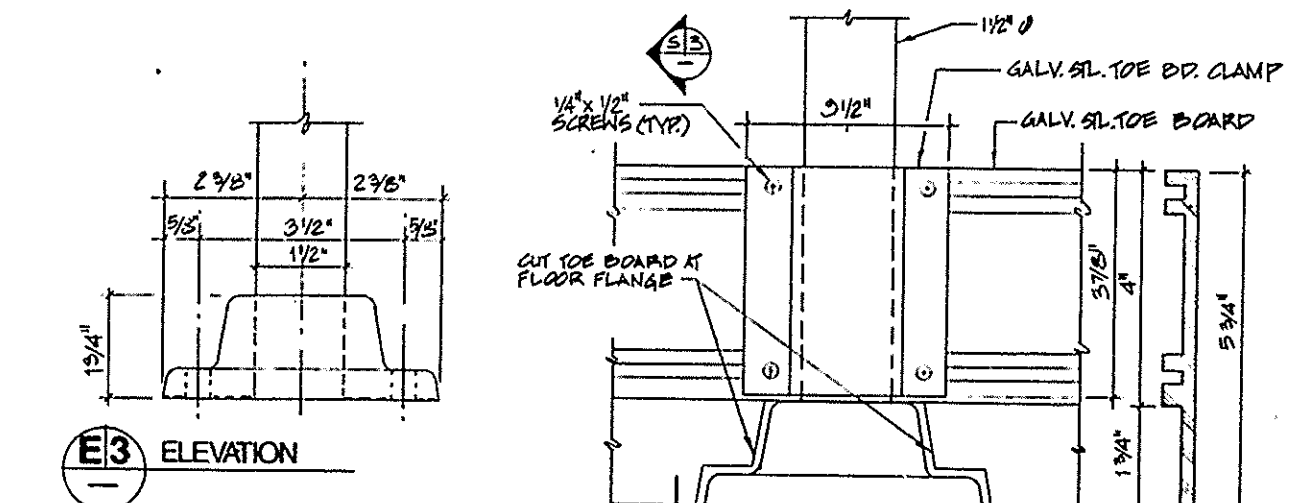
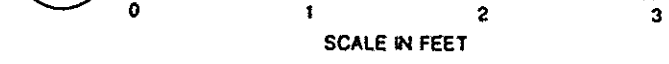
**S1 SECTION**



**E2 ELEVATION**

**S2 SECTION**

**D2 PIPE RAIL DETAIL**



**E3 ELEVATION**

**S3 SECTION**

**E4 ELEVATION**

**S4 SECTION**

**D3 PLAN (HEAVY DUTY) FLOOR FLANGE DETAIL**

**D4 TOE BOARD/CLAMP DETAIL**

**D5 LADDER FLOOR ANCHORAGE DETAIL**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

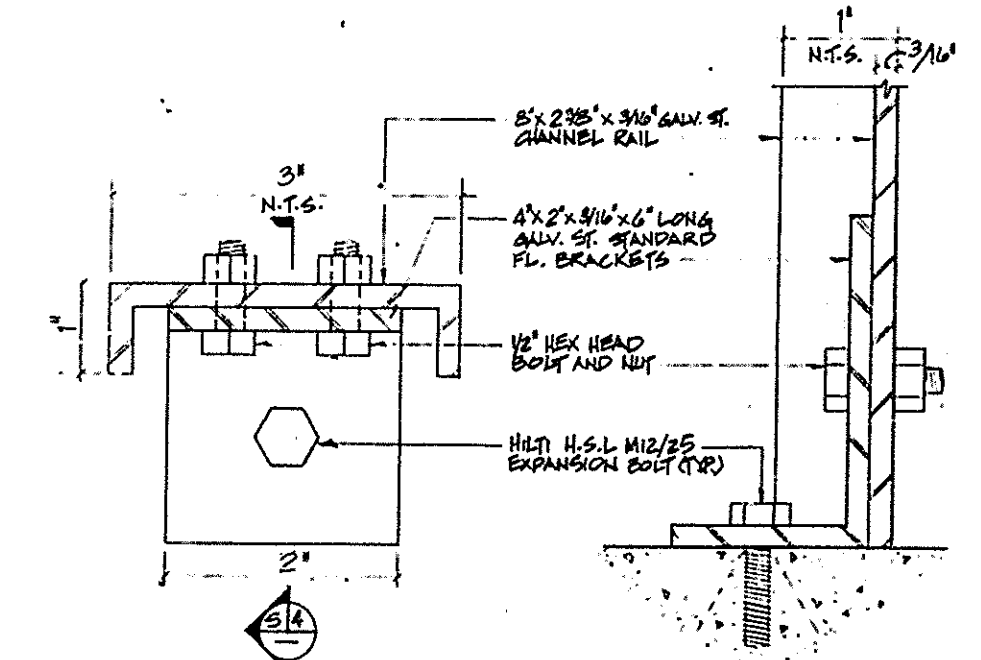
**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE CITY OF NEW YORK IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY.  
DATE 6/21/95 *Santhan A. Aslam* SPEC. WRITER  
DATE 8/15/95 *Peter K. Jurewicz* ENGINEER OF DESIGN



**D5 LADDER FLOOR ANCHORAGE DETAIL**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

**S4 SECTION**

Engineering Department  
Design Division

**The World Trade  
Center  
Electrical/HVAC  
Upgrade Program**

Title  
**TOWERS ONE AND TWO  
LOW VOLTAGE SUBSTATIONS  
CONSTRUCTION AND  
INSTALLATION**

**ARCHITECTURAL  
LADDER AND RAILING  
SECTIONS, ELEVATIONS  
AND DETAILS**

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

Designed by *P. J. Jurewicz* L.V.D.  
Drawn by *P. J. Jurewicz* L.V.D.  
Principal Architect Date 5/1/95 Scale AS NOTED

Contract Number Drawing Number

**WTC-802.071 A-31**